

**WHAT IS CLAIMED IS:**

1. A method for producing an antibody against a human-originated prostacyclin synthase, which comprises using, as an immunogen, a polypeptide comprising an isolated or purified whole or part having immunological activity of an amino acid sequence of a human-originated prostacyclin synthase substantially depicted in the Sequence Listing, SEQ ID NO: 15.
2. The method according to claim 1, wherein the polypeptide comprises an amino acid sequence of a human-originated prostacyclin synthase as depicted in the Sequence Listing, SEQ ID NO: 15.
3. The method according to claim 1, wherein the obtained antibody shows the following properties (1) and (2):
  - (1) being reactive with a human-originated prostacyclin synthase
  - (2) being unreactive with a bovine-originated prostacyclin synthase.
4. The method according to claim 1, wherein the obtained antibody specifically reacts with a human-originated prostacyclin synthase alone.
5. An isolated or purified antibody specific to human prostacyclin synthase produced by using, as an immunogen, a polypeptide comprising an isolated or purified whole or part having immunological activity of an amino acid sequence of a human prostacyclin synthase substantially depicted in SEQ ID NO: 15

6. The antibody according to claim 5, which is a monoclonal antibody.
7. The antibody according to claim 6, which is a purified IgG fraction
8. The antibody according to claim 5, which is a polyclonal antibody.
9. An antibody according to claim 5, wherein the polypeptide comprises an amino acid sequence of a human prostacyclin synthase as depicted in SEQ ID NO:15.
10. The antibody according to claim 9, which is a monoclonal antibody.
11. The antibody according to claim 10, which is a purified IgG fraction.
12. The antibody according to claim 9, which is a polyclonal antibody.
13. An isolated or purified antibody specific to human prostacyclin synthase produced by using, as an immunogen, a polypeptide comprising an isolated or purified whole or part having immunological activity of an amino acid sequence of a human proctacyclin synthase substantially depicted in SEQ ID NO: 18
14. The antibody according to claim 13, which is a monoclonal antibody.

15. The antibody according to claim 14, which is a purified IgG fraction.
16. The antibody according to claim 13, which is a polyclonal antibody.
17. The antibody according to claim 13, wherein the polypeptide comprises an amino acid sequence as depicted as SEQ ID NO: 18.
18. The antibody according to claim 17, which is a monoclonal antibody.
19. The antibody according to claim 18 which is a purified IgG fraction.
20. The antibody according to claim 17, which is a polyclonal antibody.